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#### Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF RESISTIN TO TREAT HEMATOPOIETIC DISORDERS

(57) Abstract: The present invention relates to a method of using a mammalian gene sequence and polypeptides encoded thereby to treat mammalian hematopoietic disorders. More specifically the present invention relates to methods of using compositions comprising at least one resistin agonist, resistin polynucleotide and/or resistin polypeptide for the prevention and/or treatment of mammalian hematopoietic disorders, including, but not limited to, anemia, leukemia, and hematopoietic conditions caused by bone marrow transplantation or chemo-/radiation therapy.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08456

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 45/00; A61K 38/38, 38/19; C07K 1/00, 2/00; C12N 5/00, 5/06  
US CL : 424/85.1, 198.1; 435/4, 325, 375, 377; 530/300, 350, 351, 399; 514/2, 12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/85.1, 198.1; 435/4, 325, 375, 377; 530/300, 350, 351, 399; 514/2, 12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,503,730 B1 (FRANZ-BACON et al) 07 January 2003 (07.01.2003), col 27-28, SEQ ID NO: 2.	1, 4-6, 9, 11-13, 15
Y	STEPAN et al. The hormone resistin links obesity to diabetes. Nature 409: 307-312 18 January 2001; see especially pages 307-308, Figure 2d.	1, 4-6, 9, 11-13, 15
Y.	Genbank Accession No. Q9HD89, 16 October 2001 (16.10.2001)	1, 4-6, 9, 11-13, 15
A, P	US 2002/0161210 A1 (LAZAR, M.) 31 October 2002 (31.10.2002)	1-15
A	HOLCOMB et al, A novel cysteine-rich secreted protein associated with pulmonary inflammation, defines a new gene family. EMBO J 19(15): 4046-4055, 2000; Figure 2b, hFIZZ3	1-15
A	WO 99/55868 A2 ( GENENTECH, INC.) 04 November 1999 (04.11.1999), Figure 26, SEQ ID NO: 24	1-15

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/08456

**Continuation of B. FIELDS SEARCHED Item 3:**  
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inventors' names, FIZZ, RELM, resistin, hematopoietic